

DERWENT-ACC-NO: 1996-059696

DERWENT-WEEK: 199626

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TITLE: Thermoplastic acrylic moulding materials
continuous prodn. - by radical polymerisation of a mixt.
of MMA, opt. lower alkyl acrylate and alkyl mercaptan,
and melt processing in a degassing extruder

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PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
PAGES MAIN-IPC		
EP 691351 A1	January 10, 1996	G
006 C08F 002/02		
JP 08104712 A	April 23, 1996	N/A
005 C08F 020/14		
DE 4424300 A1	January 11, 1996	N/A
005 C08L 033/12		

DESIGNATED-STATES: AT BE CH DE DK ES FR GB IT LI NL SE

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; JP 57104906 ; US 3821330

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
EP 691351A1	N/A	1995EP-0110323
July 3, 1995		
JP 08104712A	N/A	1995JP-0172441
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DE 4424300A1	N/A	1994DE-4424300
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INT-CL (IPC): C08F002/02, C08F002/38 , C08F006/10 , C08F020/14 ,
C08F220/10 , C08J003/12 , C08K005/37 , C08L033/08 , C08L033/12

ABSTRACTED-PUB-NO: EP 691351A

BASIC-ABSTRACT:

A continuous process for the prodn. of thermoplastic moulding materials comprises: (1) mixing: (a) 80-99.95 pts.wt. methyl methacrylate (MMA); (b) 0-19.95 pts.wt. (1-4C alkyl) acrylate; (c) 0.05-0.25 pts.wt. (3-6C alkyl) mercaptan; (d) a radical initiator; and (e) less than 5 pts.wt. other non-polymerisable components; (2) continuous polymerisation of the mixt. with stirring, to a conversion of 30-70 wt.%; (3) continuous removal of part of the mixt. and continuous degassing of volatiles to give a melt; and (4) continuous extrusion of the melt, followed by cooling and granulation.

USE - Used for the prodn. of PMMA-based thermoplastic moulding materials.

ADVANTAGE - Enables the continuous prodn. of PMMA-based moulding materials with improved properties, esp. higher Vicat softening points and less yellowing at elevated temp., without additional materials or process stages.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: THERMOPLASTIC ACRYLIC MOULD MATERIAL CONTINUOUS PRODUCE RADICAL

POLYMERISE MIXTURE MMA OPTION LOWER ALKYL ACRYLATE ALKYL MERCAPTAN

MELT PROCESS DEGAS EXTRUDE

DERWENT-CLASS: A14 E17

CPI-CODES: A02-A03; A02-B; A04-F06A; E10-E03;

CHEMICAL-CODES:

Chemical Indexing M3 *01*

Fragmentation Code

H4 H498 H9 M210 M211 M212 M213 M214 M215 M216

M231 M232 M233 M271 M281 M320 M416 M620 M782 M903

M904 Q120 R038

Markush Compounds

199607-A5901-M